

CLAIM AMENDMENTS

Claims 1-20 (cancelled).

Claim 21 (previously presented): A method of manufacturing a golf ball, comprising the steps of:

- (a) providing a solid ball core;
- (b) providing a first hemispheric cup which cup has two identical first semi-conical engagement edges symmetrically outwardly projecting at two sides thereof and two identical first semi-conical connection edges inwardly projecting between said two first semi-conical engagement edges, wherein said two first semi-conical engagement edges are symmetrically and continuously extended between said two first semi-conical connection edges so as to form a continuous first joint edge for said first hemispheric cup;
- (c) providing a second hemispheric cup which has two identical second semi-conical engagement edges symmetrically outwardly projecting at two sides thereof and two identical second semi-conical connection edges inwardly projecting between said second first semi-conical engagement edge, wherein said two second semi-conical engagement edges are symmetrically and continuously extended between said two second semi-conical connection edges so as to form a continuous second joint edge for said second hemispheric cup, wherein a cone height of each of said first and second semi-conical engagement edges is equal to a cone height of each of said first and second semi-conical connection edges, and a size and shape of said first hemispheric cup and the second hemispheric cup are identical and symmetrical;
- (d) placing said solid ball core between said first hemispheric cup and said second hemispheric cup; and
- (e) integrally attaching said first hemispheric cup and said second hemispheric cup together by fittingly engaging said two second semi-conical engagement edges with said two first semi-conical connection edges respectively while fittingly engaging said two second semi-conical connection edges with said two first

semi-conical engagement edges respectively so as to form a ball cover covering said solid ball core.

Claim 22 (previously presented): The method, as recited in claim 21, wherein in the step (c), said cone height of said first and second semi-conical engagement edges and said first and second semi-conical connection edges is equal to a radius of said first and second hemispheric cups.

Claim 23 (previously presented): The method, as recited in claim 21, wherein said first and second hemispheric cups share a common center point and all said first and second semi-conical engagement edges and said first and second semi-conical connection edges are curved and smooth edge surfaces extended radially from said center point to a circumference of said ball cover, wherein said continuous first joint edge of said first hemispheric cup is intercrossed with said continuous second joint edge of said second hemispheric cup that said first and second semi-conical engagement edges are respectively engaged with said second and first semi-conical connection edges.

Claim 24 (previously presented): The method, as recited in claim 22, wherein said first and second hemispheric cups share a common center point and all said first and second semi-conical engagement edges and said first and second semi-conical connection edges are curved and smooth edge surfaces extended radially from said center point to a circumference of said ball cover, wherein said continuous first joint edge of said first hemispheric cup is intercrossed with said continuous second joint edge of said second hemispheric cup that said first and second semi-conical engagement edges are respectively engaged with said second and first semi-conical connection edges.

Claim 25 (previously presented): The method, as recited in claim 21, wherein the step (a) further comprises the steps of:

(a-1) providing a first core body having a first joint portion which comprises two identical first semi-conical engagement tongues symmetrically projecting at two sides thereof so as to define two identical first semi-engagement grooves symmetrically indented between said two first semi-conical engagement tongues, wherein said two first semi-conical engagement tongues respectively define two first conically curved

tongue surfaces symmetrically facing with each other, and said two first semi-conical engagement grooves respectively define two first conically curved groove surfaces symmetrically and continuously extended between said two first conically curved tongue surfaces, so as to form a continuous first joint surface for said first joint portion;

(a-2) providing a second core body having a second joint portion which comprises two identical second semi-conical engagement tongues symmetrically projecting at two sides thereof so as to define two identical second semi-engagement grooves symmetrically indented between said two second semi-conical engagement tongues, wherein said two second semi-conical engagement tongues respectively define two second conically curved tongue surfaces symmetrically facing with each other, and said two second semi-conical engagement grooves respectively define two second conically curved groove surfaces symmetrically and continuously extended between said two second conically curved tongue surfaces, so as to form a continuous second joint surface for said second joint portion, wherein a cone height of each of said first and second semi-conical engagement tongues is equal to a cone height of each of said first and second semi-conical engagement grooves, and thus a size of the shape of said first joint portion and said second joint portion are identical and symmetrical;

(a-3) fittingly engaging said two second semi-conical engagement tongues in said two first semi-conical engagement grooves respectively while fittingly engaging said first semi-conical engagement tongues in said two second semi-conical engagement grooves respectively; and

(a-4) attaching said first core body and said second core body by integrally attaching said first joint portion and said second joint portion together to form said solid ball core.

Claim 26 (previously presented): The method, as recited in claim 24, wherein the step (a) further comprises the steps of:

(a-1) providing a first core body having a first joint portion which comprises two identical first semi-conical engagement tongues symmetrically projecting at two sides thereof so as to define two identical first semi-engagement grooves symmetrically indented between said two first semi-conical engagement tongues, wherein said two first semi-conical engagement tongues respectively define two first conically curved

tongue surfaces symmetrically facing with each other, and said two first semi-conical engagement grooves respectively define two first conically curved groove surfaces symmetrically and continuously extended between said two first conically curved tongue surfaces, so as to form a continuous first joint surface for said first joint portion;

(a-2) providing a second core body having a second joint portion which comprises two identical second semi-conical engagement tongues symmetrically projecting at two sides thereof so as to define two identical second semi-engagement grooves symmetrically indented between said two second semi-conical engagement tongues, wherein said two second semi-conical engagement tongues respectively define two second conically curved tongue surfaces symmetrically facing with each other, and said two second semi-conical engagement grooves respectively define two second conically curved groove surfaces symmetrically and continuously extended between said two second conically curved tongue surfaces, so as to form a continuous second joint surface for said second joint portion, wherein a cone height of each of said first and second semi-conical engagement tongues is equal to a cone height of each of said first and second semi-conical engagement grooves, and thus a size of the shape of said first joint portion and said second joint portion are identical and symmetrical;

(a-3) fittingly engaging said two second semi-conical engagement tongues in said two first semi-conical engagement grooves respectively while fittingly engaging said first semi-conical engagement tongues in said two second semi-conical engagement grooves respectively; and

(a-4) attaching said first core body and said second core body by integrally attaching said first joint portion and said second joint portion together to form said solid ball core.

Claim 27 (previously presented): The method, as recited in claim 25, wherein said cone height of said first and second semi-conical engagement tongues and said first and second semi-conical engagement grooves is equal to a radius of said first and second joint portions.

Claim 28 (previously presented): The method, as recited in claim 26, wherein said cone height of said first and second semi-conical engagement tongues and said

first and second semi-conical engagement grooves is equal to a radius of said first and second joint portions.

Claim 29 (previously presented): The method, as recited in claim 25, wherein said first and second joint portions share a common center point and all said first and second conically curved tongue surface and said first and second conically curved groove surfaces of said first and second joint portions are curved and smooth surfaces extended outwardly and radially from said center point to a circumference of said solid ball core, wherein said first joint portion is intercrossed with said second joint portion that said first and second semi-conical engagement tongues are respectively engaged in said second and first semi-conical engagement grooves, and said first and second semi-conical engagement tongues are embraced by said second and first semi-conical engagement grooves respectively.

Claim 30 (previously presented): The method, as recited in claim 27, wherein said first and second joint portions share a common center point and all said first and second conically curved tongue surface and said first and second conically curved groove surfaces of said first and second joint portions are curved and smooth surfaces extended outwardly and radially from said center point to a circumference of said solid ball core, wherein said first joint portion is intercrossed with said second joint portion that said first and second semi-conical engagement tongues are respectively engaged in said second and first semi-conical engagement grooves, and said first and second semi-conical engagement tongues are embraced by said second and first semi-conical engagement grooves respectively.

Claim 31 (previously presented): The method, as recited in claim 28, wherein said first and second joint portions share a common center point and all said first and second conically curved tongue surface and said first and second conically curved groove surfaces of said first and second joint portions are curved and smooth surfaces extended outwardly and radially from said center point to a circumference of said solid ball core, wherein said first joint portion is intercrossed with said second joint portion that said first and second semi-conical engagement tongues are respectively engaged in said second and first semi-conical engagement grooves, and said first and second semi-conical engagement tongues are embraced by said second and first semi-conical engagement grooves respectively.

Claim 32 (previously presented): The method, as recited in claim 29, wherein said first and second conically curved tongue surfaces and said first and second conically curved grooves of said first second joint portions are curved and smooth surfaces are inclined from said center point at 45° .

Claim 33 (previously presented): The method, as recited in claim 30, wherein said first and second conically curved tongue surfaces and said first and second conically curved grooves of said first second joint portions are curved and smooth surfaces are inclined from said center point at 45° .

Claim 34 (previously presented): The method, as recited in claim 31, wherein said first and second conically curved tongue surfaces and said first and second conically curved grooves of said first second joint portions are curved and smooth surfaces are inclined from said center point at 45° .

Claim 35 (previously presented) A method of manufacturing a golf ball, comprising the steps of:

(a) providing a first core body having a first joint portion which comprises two identical first semi-conical engagement tongues symmetrically projecting at two sides thereof so as to define two identical first semi-engagement grooves symmetrically indented between said two first semi-conical engagement tongues, wherein said two first semi-conical engagement tongues respectively define two first conically curved tongue surfaces symmetrically facing with each other, and said two first semi-conical engagement grooves respectively define two first conically curved groove surfaces symmetrically and continuously extended between said two first conically curved tongue surfaces, so as to form a continuous first joint surface for said first joint portion;

(b) providing a second core body having a second joint portion which comprises two identical second semi-conical engagement tongues symmetrically projecting at two sides thereof so as to define two identical second semi-engagement grooves symmetrically indented between said two second semi-conical engagement tongues, wherein said two second semi-conical engagement tongues respectively define two second conically curved tongue surfaces symmetrically facing with each other, and said two second semi-conical engagement grooves respectively define two second conically curved groove surfaces symmetrically and continuously extended between said

two second conically curved tongue surfaces, so as to form a continuous second joint surface for said second joint portion, wherein a cone height of each of said first and second semi-conical engagement tongues is equal to a cone height of each of said first and second semi-conical engagement grooves, and thus a size of the shape of said first joint portion and said second joint portion are identical and symmetrical;

(c) fittingly engaging said two second semi-conical engagement tongues in said two first semi-conical engagement grooves respectively while fittingly engaging said first semi-conical engagement tongues in said two second semi-conical engagement grooves respectively;

(d) attaching said first core body and said second core body by integrally attaching said first joint portion and said second joint portion together to form a solid ball core;

(e) providing a ball cover having a hollow spherical shape; and

(f) covering said solid ball core by said ball cover.

Claim 36 (previously presented): The method, as recited in claim 35, wherein said cone height of said first and second semi-conical engagement tongues and said first and second semi-conical engagement grooves is equal to a radius of said first and second joint portions.

Claim 37 (previously presented): The method, as recited in claim 35, wherein said first and second joint portions share a common center point and all said first and second conically curved tongue surface and said first and second conically curved groove surfaces of said first and second joint portions are curved and smooth surfaces extended outwardly and radially from said center point to a circumference of said solid ball core, wherein said first joint portion is intercrossed with said second joint portion that said first and second semi-conical engagement tongues are respectively engaged in said second and first semi-conical engagement grooves, and said first and second semi-conical engagement tongues are embraced by said second and first semi-conical engagement grooves respectively.

Claim 38 (previously presented): The method, as recited in claim 36, wherein said first and second joint portions share a common center point and all said first and second conically curved tongue surface and said first and second conically curved groove surfaces of said first and second joint portions are curved and smooth surfaces extended outwardly and radially from said center point to a circumference of said solid ball core, wherein said first joint portion is intercrossed with said second joint portion that said first and second semi-conical engagement tongues are respectively engaged in said second and first semi-conical engagement grooves, and said first and second semi-conical engagement tongues are embraced by said second and first semi-conical engagement grooves respectively.

Claim 39 (previously presented): The method, as recited in claim 37, wherein said first and second conically curved tongue surfaces and said first and second conically curved grooves of said first second joint portions are curved and smooth surfaces are inclined from said center point at 45° .

Claim 40 (previously presented): The method, as recited in claim 38, wherein said first and second conically curved tongue surfaces and said first and second conically curved grooves of said first second joint portions are curved and smooth surfaces are inclined from said center point at 45° .